

# SCIENCE 8<sup>th</sup> Standard TERM - III

Based on the New Syllabus and New Textbook for 2019-20

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# NOTE FROM PUBLISHER

It gives me great pride and pleasure in bringing to you Sura's Science Guide for 8<sup>th</sup> Standard Term-III. It is prepared as per the Revised Textbook for Term-III for the year 2019.

This guide encompasses all the requirements of the students to comprehend the text and the evaluation of the textbook.

- Additional questions have been provided exhaustively for clear understanding of the units under study.
- Chapter-wise Unit Tests with Answers.

In order to learn effectively, I advise students to learn the subject section-wise and practice the exercises given. It will be a teaching companion to teachers and a learning companion to students.

Though these salient features are available in this Guide, I cannot negate the indispensable role of the teachers in assisting the student to understand the subject thoroughly.

I sincerely believe this guide satisfies the needs of the students and bolsters the teaching methodologies of the teachers.

I pray the almighty to bless the students for consummate success in their examinations.

Subash Raj, B.E., M.S. - Publisher Sura Publications

All the Best

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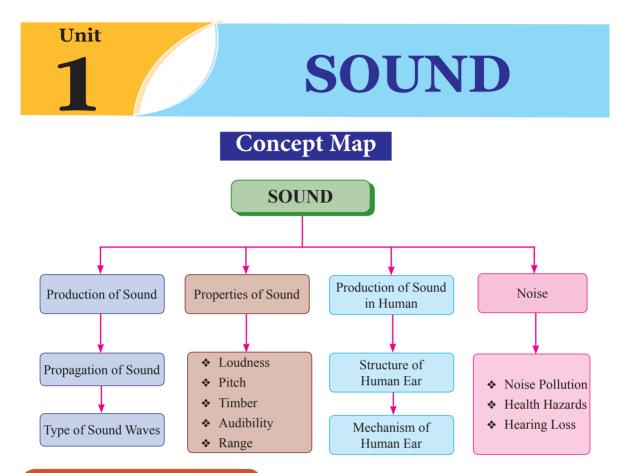
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# **Must Know Definitions**

Sound	:	<b>Sound</b> is a form of energy that is transferred as vibrations through the air or any other medium in the form of waves.
Time period	:	The time taken by a vibrating particle to complete one vibration is known as <b>time period</b> of the vibration.
Audible sound	:	Sound with the frequency ranging from 20 Hz to 20000 Hz is called sonic sound or <b>audible sound</b> .
Infrasonic sound	:	A sound with a frequency below 20 Hz is called as subsonic or <b>infrasonic sound</b> .
Ultrasonic sound	:	A sound with a frequency greater than 20000 Hz is called as <b>ultrasonic sound</b> .
Vibration	:	Vibration means a kind of rapid to and fro motion of an object.
Compression	:	The region of high pressure in a longitudinal wave is called a <b>compression</b> .
Rarefaction	:	The region of low pressure in a longitudinal wave is called a rarefaction.
Wavelength	:	The distance between any two consecutive rarefactions or compressions in a wave is called wavelength.
Amplitude	:	The maximum displacement of a wave on either side of its mean position is called <b>amplitude</b> .

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		ш		
		1		
3.	The amplitude of the sound w (a) speed (b) pitch		loudness (d)	frequency
				[Ans. (c) loudness]
4.	What kind of musical instrum			
	<ul><li>(a) String instrument</li><li>(c) Wind instrument</li></ul>	(b) (d)	Percussion instrume	nt s. (a) String instrument]
5.	Find the odd one out.	(4)		s. (a) set ing inset among
	(a) Harmonium	. ,	Flute	
	(c) Nadaswaram	. ,	Violin	[Ans. (d) Violin]
6	<b>Reason</b> : Violin is a stringed in:		ther are wind or reed	instruments.
6.	<ul><li>Noise is produced by</li></ul>		regular vibrations.	
	(c) regular and periodic vibrati		e e	eriodic vibrations.
			<b>U</b>	non-periodic vibrations]
<b>7</b> .	The range of audible frequence	cy for the h	uman ear is	
	(a) 2 Hz to 2000 Hz		20 Hz to 2000 Hz	
	(c) 20 Hz to 20000 Hz	(d)	200 Hz to 20000 Hz	s. (c) 20 Hz to 20000 Hz]
8.	If the amplitude and frequenc	v of a soun		- · · · · · · · · · · · · · · · · · · ·
0.	is true?	<i>y</i> of a sound	a wave are mercused	i, which of the following
	(a) Loudness increases and pit	•		
	<ul><li>(b) Loudness increases and pit</li><li>(c) Loudness increases and pit</li></ul>		nged	
	(d) Loudness decreases and pit			
				ases and pitch is higher]
II.	Fill in the blanks :			
1.	Sound is produced by			[Ans. vibrating bodies]
<b>2</b> .	The vibrations of a simple pend		so known as	[Ans. oscillation]
3.	Sound travels in the form of			Ans. mechanical waves]
4.	High frequency sounds that can	not be hear	d by you are called	
5.	Ditch of a cound domanda on the		vibration	[Ans. Ultrasonic]
э. 6.	Pitch of a sound depends on the If the thickness of a vibrating st			
	-	ing is not		[Alls. decrease]
III.	Match the following :			
	1. Ultrasonics -	¥ \$		
	2. Speed of sound in air -		erial medium	
		330 m		
Ans.		Frequency	more than 20000 Hz	
4 XII 3.		Frequency	more than 20000 Hz	
		330 m	11010 (1101 20000 112	
	1		below 20Hz	
	4. Sound propagation -	- ·		
	. Sound propugation -	i veeds mat		
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# 7. Mention few measures to be taken to reduce the effect of noise pollution.

- Ans. (i) Strict guidelines should be set for the use of loudspeakers on social, religious and political occasions.
  - (ii) All automobiles should have effective silencers.

# **8.** Define the following terms: a) Amplitude, b) Loudness.

- **Ans. (a)** Amplitude : Amplitude is the maximum displacement of a vibrating particle from its mean position. It is denoted by 'A' and its unit is 'metre' (m).
  - (b) Loudness : It is defined as the characteristic of a sound that enables us to distinguish a weak or feeble sound from a loud sound. The unit of loudness of sound is decibel (dB).

# 9. How does planting trees help in reducing noise pollution?

- Ans. (i) Plant parts such as stems, leaves, branches wood, etc., absorb sound.
  - (ii) Rough bark and thick, fleshy leaves are particularly effective at absorbing sound due to their dynamic surface area and helps in reducing noise pollution.

# VI. Answer in detail :

# **1**. Describe an experiment to show that sound cannot travel through vacuum.

Ans. Aim : To prove that sound cannot travel through vacuum and it needs a medium for propagation. Materials Required : Bell jar, mobile phone and vacuum pump.

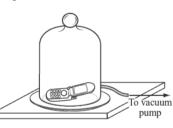
# **Procedure :**

- (i) Take a bell jar and a mobile phone.
- (ii) Switch on the music in the mobile phone and place it in the jar.
- (iii) Now, pump out the air from the bell jar using a vacuum pump.
- (iv) As more and more air is removed from the jar, the sound from the mobile phone becomes feebler and finally, very faint.

**Conclusion :** This experiment proves that sound cannot travel in vacuum and it needs a medium.

# 2. What are the properties of sound?

- Ans. (a) Loudness
  - (b) Pitch
  - (c) Quality or Timbre
  - (a) Loudness :
    - (i) It is defined as the characteristic of a sound that enables us to distinguish a weak or feeble sound from a loud sound.
    - (ii) The loudness of a sound depends on its amplitude.
    - (iii) Higher the amplitude louder will be the sound and vice-versa.
    - (iv) When a drum is softly beaten, a weak sound is produced. However, when it is beaten strongly, a loud sound is produced.
    - (v) The unit of loudness of sound is decibel (dB).
  - (b) Pitch :
    - (i) The pitch is the characteristic of sound that enables us to distinguish between a flat sound and a shrill sound.
    - (ii) Higher the frequency of sound, higher will be the pitch. High pitch adds shrillness to a sound.
    - (iii) The sound produced by a whistle, a bell, a flute and a violin are high pitch sounds.



SOUND

# Ans. Case 1 :

- (i) Now, strike it with a stick.
- (ii) Touch the pan gently with your index finger. Do you feel the vibrations?

#### **Observation :**

we can the feel the vibration for sometime.

#### **Case 2 :**

- (i) Strike the pan with the stick and hold tightly with your hands, immediately after striking.
- (ii) Do you still hear the sound?

#### **Observation :**

we cannot hear the sound.

**Conclusion :** This activity shows the vibrating pan produces sound.

# → ACTIVITY - 3

Take a metal dish, pour some water in it. Strike it at its edge with a spoon. Do you hear any sound?

**Ans.** We see that a vibrating object produces sound.

# Again strike the dish and touch it. Can you feel the dish vibrating?



Ans. I can feel the dish vibrating.

Strike the dish again. Look at the surface of water. Do you see any movement on the water surface?

Ans. I can see the waves on the surface of water.

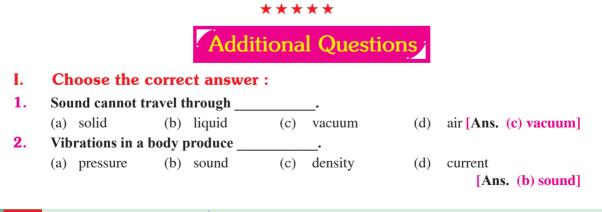
Now, hold the dish. What change do you observe on the surface of water? Ans. I cannot see the waves on the surface of water.

# → ACTIVITY - 5

Take two stones and strike them together and listen to the sound produced by them. Now take the stones underwater and strike them. You will find that the sound produced by the stones underwater is feeble and not very clear.

**Ans. Observation :** We observe that the sound produced by the stones underwater is feeble and not very clear.

**Conclusion :** This activity shows that the speed of sound depends on the properties of the medium through which it travels.



8

III

- **9.** Sound is produced by vibrating bodies.
- Ans. True.
- **10.** The frequency of sound is varied by varying the length of the vibrating wire.
- Ans. True.

# **IV.** Match the following :

1.	1.	String vibration	(	a)	Flute	
	2.	Membrane vibration	(	b)	Bicycle bell	
	3.	Vibration of air	(	c)	Table	
	4.	Vibration of plate	(	d)	Gitar	[Ans. (1 - d, 2 - c, 3 - a, 4 - b)]
				_		
2.	1.	Audible range	(a)	1	50 Hz to 45000 Hz	
	2.	Infrasonic range	(b)		Above 20,000 Hz	
	3.	Ultrasonic range	(c)		20 Hz to 20 k Hz	
	4.	Dog's hearing range	(d)	]	Below 20 Hz	[Ans. (1 - c, 2 - d, 3 - b, 4 - a)]
3.	1.	Pitch	(a)	<u> </u>	Woman	
	2.	Loudness	(b)	]	Man	
	3.	Shriller voice	(c)	]	Frequency	
	4.	Flatter voice	(d)	4	Amplitude	[Ans. (1 - c, 2 - d, 3 - a, 4 - b)]
4.	1.	Frequency	(a)	]	Decibel	
	2.	Loudness	(b)	]	Noise buffers	
	3.	Wavelength	(c)	]	Hertz	
	4.	Tree	(d)	]	Metre	[Ans. (1 - c, 2 - a, 3 - d, 4 - b)]

# V. Assertion and Reason. Mark the correct choice as :

- (a) Both assertion and reason are true and reason is the correct explanation of assertion.
- (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) Assertion is true but reason is false.
- (d) Assertion is false but reason is true.
- (e) Both Assertion and reason are false.

```
1. Assertion : Sound waves do not travel through vacuum.
```

**Reason** : The speed of sound is too small when compared to speed of light.

[Ans. (b) Both assertion and reason are true but reason is not the

correct explanation of assertion.]

**Reason :** Sound is mechanical wave, which require medium to travel.

**2.** Assertion : We cannot hear the sound produced by a vibrating pendulum.

**Reason** : The frequency of the pendulum is very less.

[Ans. (a) Both assertion and reason are true and reason is the correct explanation of assertion.]

SOUND

# **Down**:

- **1.** A unit used to measure the loudness or intensity of sound.
- **3.** Sound wave whose frequency is too high to be heard by humans.
- **5.** Sound wave whose frequency is too low to be heard by humans.
- **7.** A reflection of sound.
- 9. The branch of science deals with the study of seismic waves.

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	E		S				L		S	0	L	Ι	D					
	L		Ο				0		0	10V	Ι	В	R	А	Т	Ι	0	N
<sup>8</sup> S	0	U	Ν	D			G		Ν									
			Ι				Y		Ι									
			C						C									

# XI. Problems for practice :

1. A sound has a frequency of 60 Hz and a wavelength of 20 m. What is the speed of the sound? Solution :

Given :	Frequency n	=	60 Hz
	Wavelength $\boldsymbol{\lambda}$	=	20 m
To find :	Speed V	=	?
Formula :	V	=	$n\lambda$
		=	$20 \times 60$
	V	=	$120 \text{ ms}^{-1}$

2. A sound has a wavelength of 50 m and a speed of 10 ms<sup>-1</sup>. What is the frequency of the sound wave?

**Solution :** 

Given : Wavelength  $\lambda = 50 \text{ m}$ Speed V = 10 ms<sup>-1</sup> To find : n = ? Formula : n =  $\frac{V}{\lambda}$ n =  $\frac{10}{50} = 0.2 \text{ m}$ 

\*\*\*\*

- **5**. How can you identify non-magnetic materials? Give an example of a non- magnetic material.
- Ans. (i) Materials which are not attracted by magnets are called non-magnetic materials.
  - (ii) Example : Wood, Glass, Rubber, Plastic, Aluminium.

# VI. Answer in detail :

#### **1.** List out the uses of magnets in day-to-day life.

- **Ans. (i)** In ancient times, the magnet in the form of 'direction stone' helped seamen to find the directions during a voyage.
  - (ii) Nowadays, magnets are used to generate electricity in dynamos.
  - (iii) Electromagnets are used in our day-to-day life.
  - (iv) They are used in electric bells and electric motors.
  - (v) They are used in loudspeakers and microphones.
  - (vi) An extremely powerful electromagnet is used in the fast moving Maglev train to remain floating above the tracks.
  - (vii) In industries, magnetic conveyor belts are used to sort out magnetic substances from scraps mixed with non-magnetic substances.
  - (viii) Magnets are used in computer in its storing devices such as hard disks.
  - (ix) In banks, the magnets enable the computers to read the MICR numbers printed on a cheque.
  - (x) The tip of the screw drivers are made slightly magnetic so that the screws remain attached to the tip.
  - (xi) At hospitals, extremely strong electro magnets are used in the MRI (Magnetic Resonance Imaging) to scan the specified internal organ.

# 2. How will you convert a 'nail' into a temporary magnet?

- Ans. (i) Spread some steel pins on a wooden board and bring an iron nail near them.
  - (ii) Now, make one of the magnetic poles of the bar magnet touch one end of the iron nail.
  - (iii) Slide it along its length in one direction slowly till the other end is reached.
  - (iv) Repeat the process, as shown in the diagram, 20 to 30 times.
  - (v) The magnet has to be moved in one direction only.
  - (vi) Avoid the swiping of the magnet back and forth.
  - (vii) Now, bring the iron nail near the steel pins.
  - (viii) The steel pins stick to the iron nail because nail has become a temporary magnet.

# **3.** Write a note on Earth's magnetism.

- Ans. (i) Earth has been assumed or imagined by the scientists as a huge magnetic dipole.
  - (ii) The south pole of the imaginary magnet inside the Earth is located near the geographic north pole and the north pole of the Earth's magnet is located near the geographic south pole.
  - (iii) The line joining these magnetic poles is called the magnetic axis.
  - (iv) The magnetic axis intersects the geographic north pole at a point called the north geomagnetic pole or northern magnetic pole.
  - (v) It intersects the geographic south pole at a point called the south geomagnetic pole or southern magnetic pole.

**Unit 2** 

**Physics** 

behaves as a magnet under the influence of an external magnetic field produced in a coil of wire carrying a current. [Ans. Soft iron]

- **9.** The unit of frequency is
- **10.** The strip on the back of a credit card/debit card is a magnetic strip, often called a .

# III. True or False - if false, give the correct statement :

- **1.** Magnets found in the nature are called artificial magnets.
- Ans. False. Correct statement: Magnets found in the nature are called natural magnets.
- **2.** Magnetite is an oxide ore of iron with the formula  $Fe_{3}O_{4}$ .
- Ans. True.

8.

- **3.** The strength of a artificial magnet is well determined and difficult to change.
- **Ans. False. Correct statement:** The strength of a natural magnet is well determined and difficult to change.
- **4.** When a magnet is split vertically, the length of the magnet is altered and each piece acts as a magnet.

# Ans. True.

**5.** Unlike poles attract each other and like poles repel each other.

# Ans. True.

- **6.** The unit of magnetic field is metre.
- Ans. False. Correct statement: The unit of magnetic field is tesla or gauss.
- 7. The compass needle gets deflected to a large extent, which it is closer to the magnet.

#### Ans. True.

8. Magnetic character of diamagnetic substances is not affected by the external temperature.

- Ans. True.
- 9. Magnets used in electric bells and cranes are the examples of permanent magnets.
- Ans. False. Correct statement: Magnets used in electric bells and cranes are the examples of temporary magnets.
- **10.** Magnetic neutron star is located in the Milky way Galaxy.

Ans. True.

1.

# **IV.** Match the following :

1.	Directive property	(a)	Never intersect
2.	Magnetic poles	(b)	Magnetic compass
3.	Lines of force	(c)	Attract
4.	Unlike poles	(d)	Exist in pairs

[Ans. (1 - b, 2 - d, 3 - a, 4 - c)]

# V. Very short answer questions :

# **1.** What is the other name of lodestone?

Ans. Magnetite. (Iron oxide)

#### **2.** Convert 1 tesla into gauss.

**Ans.** 1 tesla = 10,000 gauss.

**Physics** 

[Ans. hertz]

[Ans. magstripe]



Ш

4.	A fr	eely sus	pended magne	t aligns al	ong th	ie	directio	on.	
	(a)	North	n-east	C C	C	(b)	North - west	t	
	(c)	North	n-south			(d)	South-west		
II.	Fill	l in th	e blanks.						$(4 \times 1 = 4)$
<b>5</b> .			are used to lift	heavy iro	n piec	es			
6.	Am	agnet h	as	magnetic	poles				
7.	Attr	active p	roperty of a ma	agnet is m	ore at	the_			
8.	The	strip on	the back of a c	credit card	/debit	card	is a magnetic	strip, ofte	n called a
III.	Wr	ite Tru	ie or False.	lf false,	writ	te th	e correct s	stateme	nt. $(2 \times 1 = 2)$
9.		·	ss needle gets d			<u> </u>		is closer t	o the magnet.
10.	Mag	gnets for	und in the natur	re are calle	ed arti	ficial	magnets.		
IV.	An	swer t	he followin	g briefly	y:				$(5 \times 2 = 10)$
11.		-	between natura	al and arti	ficial	magn	ets?		
12.			gnetic field?						
13.			e properties of a	-					
14.			e on Maglev tra						
15.	Drav	w the m	agnetic field lin	nes of a ba	ar mag	gnet.			
V.	An	swer t	he followin	g in det	ail:				$(5 \times 1 = 5)$
16.	(a)	How	will you conver	rt a 'nail' i	into a		orary magnet	?	
		~				(or)			
	(b)	Comp	are the characte	eristics of d	liamag	netic	, paramagnetic	e and ferror	nagnetic materials.
				7	***	**	k i i		
				An	swe	er l	Кеу		
I.	1.	(d) A	All of these	2.	(d)	Neo	dymium		
	3.	(c) ł	ooth a and b	4.	(c)	Nor	th-south		
II.	5.	Electro	omagnets	6.	two				
	7.	poles		8.	mag	stripe	;		
III.	9.	True							
	10.	False.	Correct statem	ent: Magn	ets fo	und i	n the nature a	re called n	atural.
IV.	11.		Sura's Guide, T	•					
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Unit 2

**Physics** 

**4.** PSLV and GSLV are India's popular satellites.

# Ans. True.

- **5.** The propellant of a rocket is only in the form of solids.
- Ans. False. Correct statement: The propellant of a rocket is may be in the form of solids or liquids.

# **IV.** Match the following :

- 1. Chandrayaan Fuel
- 2. Mangalyaan Moon
- 3. Cryogenic First manned mission to the moon
- 4. Apple 8 First man landing mission to the moon
- 5. Apollo 11 Mars

# Ans.

1. Chandrayaan Moon 2. Mars Mangalyaan \_ 3 Cryogenic Fuel 4. Apple - 8 First manned mission to the moon \_ 5. Apollo - 11 First man landing mission to the moon

# V. Answer briefly:

# **1.** What are celestial objects?

**Ans.** The stars, the planets, the Moon and any other objects like asteroids and comets in the sky are called celestial objects.

# **2**. Define galaxy.

Ans. A collection of billions of stars held together by mutual attraction is called galaxy.

# **3.** What are the objectives of Chandrayaan -1?

- **Ans.** (i) To find the possibility of water on the Moon.
  - (ii) To find the elements of matter on the Moon.
    - (iii) To search for the existence of Helium-3.
    - (iv) To make a 3-dimensional atlas of the Moon.
    - (v) To study about the evolution of the solar system.

# 4. List out the objectives of Mangalyaan.

- Ans. (i) To develop the technology required for interplanetary mission.
  - (ii) To explore the surface of Mars.
  - (iii) To study the constituents of the Martian atmosphere.
  - (iv) To provide information about the future possibility of life and past existence of life on the planet.

# 5. What are Cryogenic Fuels?

**Ans.** Cryogenic fuels are the fuels used in rocket engine. They are maintained or stored at very low temperature in order to keep them in liquid state.

# 6. Name the Indians worked at NASA.

Ans. Kalpana Chawla and Sunitha Williams.

# V. Very short answer questions :

1. Name an Indian pilot who was selected as a cosmonaut in a joint space program between India and Soviet Russia.

Ans. Rakesh Sharma.

- **2.** Name the solid fuels used in rockets.
- Ans. Polyurethanes and Polybutadienes.
- **3.** Name the fuels which do not need any ignition system.

Ans. Cryogenic fuels.

# 4. Name the principle which is used in rocket propulsion.

Ans. Newton's third law (For every action there is an equal and opposite reaction).

# 5. What are the 4 major parts or systems in a rocket?

- Ans. (i) Structural system
  - (ii) Payload system
  - (iii) Guidance system
  - (iv) Propulsion system
- 6. Name the 2 popular rockets of India.
- Ans. Polar satellite launch vehicle (PSLV) Geosynchronous satellite launch vehicle (GSLV)
- 7. What are the most popular missions of NASA?
- **Ans.** Apollo missions.

# VI. Short answer questions.

# **1.** Write a note on propulsion system of rocket.

- Ans. (i) It takes up most of the space in a rocket.
  - (ii) It consists of fuel (propellant) tanks, pumps and a combustion chamber.
  - (iii) There are two main types of propulsion systems, liquid propulsion system and solid propulsion system.

# **2.** What is a propellant?

**Ans.** A propellant is a chemical substance that can undergo combustion to produce pressurized gases whose energy is utilized to move a rocket against the gravitational force of attraction.

# **3.** Write a note on orbiter and lander of Chandrayaan - 2.

- Ans. (i) Orbiter : It revolves around the Moon and it is capable of communicating with Indian Deep Space Network (IDSN) at Bylalu as well as Vikram Lander.
  - (ii) Lander : It is named as Vikram in the memory of Dr.Vikram A. Sarabhai, the father of Indian space program.

# 4. Write about Sunitha William's work at NASA.

- Ans. (i) Sunitha Williams started her career as an astronaut in August 1998.
  - (ii) She made two trips to the International Space Station.
  - (iii) She set a record of the longest space walking time by a female astronaut in 2012, with a total space walk of 50 hour and 40 minute (7 space walks).
  - (iv) She is one of the crew of NASA's Manned Mars Mission.

- Sura's  $\circ$  Science  $\circ$  8th Std  $\circ$  Term  $\circ$ Ш **TEXT BOOK EXERCISES** I. Choose the correct answer : 1. Water changes to ice at (c) 102°C (a)  $0^{\circ}C$ (b) 100°C (d)  $98^{\circ}C$  [Ans. (a)  $0^{\circ}C$ ] 2. Solubility of carbon dioxide in water is high when the (b) pressure is high (a) pressure is low (c) temperature is high (d) None of the above [Ans. (b) pressure is high] 3. The gas collected at the cathode on electrolysis of water is \_\_\_\_\_ (a) oxygen (b) hydrogen (d) carbon dioxide (c) nitrogen [Ans. (b) hydrogen] 4. Which of the following is a water pollutant? (a) Lead (b) Alum (c) Oxygen (d) Chlorine [Ans. (a) Lead] 5. Permanent hardness of water is due to the presence of Sulphates and Chlorides (a) (b) Dust particles Carbonates and Bicarbonates (d) Other soluble particles (c) [Ans. (a) Sulphates and Chlorides] II. Fill in the blanks : 1. Water is colourless, odourless and [Ans. tasteless] 2. The boiling point of water is \_\_\_\_\_. [Ans. 100°C] 3. Temporary hardness of water can be removed by of water. [Ans. boiling] 4. The density of water is maximum at [Ans. 4°C] **5**. Loading speeds up the process of [Ans. Sedimentation] III. State True or False. If false, correct the statement. : 1. Sewage should be treated well before being discharged it into water bodies. Ans. True. 2. Sea water is suitable for irrigation as it contains dissolved salts. **Ans.** False. Correct statement: Sea water is **not** suitable for irrigation as it **has high salinity**. 3. Excessive use of chemical fertilizers depletes the soil and causes water pollution. Ans. True. 4. Water unfit for drinking is called potable water. Ans. False. Correct statement: Water suitable for drinking is called potable water. 5. Soap lathers well in hard water.

Ans. False. Correct statement: Soap lathers well in soft water.

Chemistry

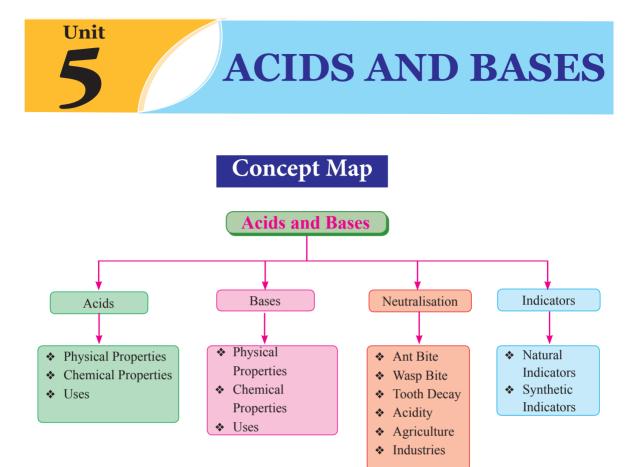
Jnit 4

III

5.	The freezing poi	nt of water	wit	h increase in pre	essure		
0.		(b) decreases		—	(d)	none	
							s. (b) decreases]
6.	Every litre of se	a water contains		grams of dis	solved	-	
0.	(a) 40	(b) 70			(d)		[Ans. (c) 35]
7.		dding chlorine in a	. ,				
••	-	(b) Ozonisation	-				
	()	(-)	(-)				) Chlorination]
8.	from tl	ne air and sunlight	destr	ov the germs pre			
	(a) Oxygen	(b) Hydrogen			(d)		•
				U			ns. (a) Oxygen]
9.	Aquatic plants n	nake use of dissolv	ed	for photos	vnthe	sis.	
		(b) CO <sub>2</sub>					[Ans. (b) CO <sub>2</sub> ]
10.	Which one of the	e following has the	highe	est latent heat of	vapol	rization	?
	(a) Ice	•	-	Steam	(d)		
						[	Ans. (c) Steam]
II.	Fill in the bla	inks :					
1.	The chemical nar	ne of water is	·		Ans.	Dihydro	ogen monoxide]
<b>2</b> .	2H <sub>2</sub> O <u>Electrolysis</u>	$\rightarrow$ 2H <sub>2</sub> +					[Ans. O <sub>2</sub> ]
3.	-	repared by			I	Ans. <mark>He</mark>	nry Cavendish]
4.		at°C at on	e atmo	spheric pressure.			[Ans. 100]
5.		will cause an				1	Ans. expansion]
6.		highest latent heat c					[Ans. Ice]
7.	One gram of wate	er requires o	f heat	to raise its tempe	rature	by 1°C.	[Ans. 1 Calorie]
8.	Water is circulate	d around car engine	e using	, the pump	p and t	the heat	
0	Denne erecten in			: 1 1: <i>.</i>			[Ans. radiator]
9. 10.		and it shows			is pap	er.	
10.		react with water and the steam to produce	-	-		[Ans ]	[Ans. Copper] Red hot carbon]
11. 12.		olves in water and p		•		-	trochloric acid
13.	e e	issolved in water re				-	
							ium carbonate]
14.	RO purifiers have	e aunit that	t destr	oys the germs pre	esent i	n water.	
						-	Ans. ultraviolet]
15.	is the proc	ess in which air unc	ler pre	ssure is blown in	to filte		
III.	True or False	- If false, give	the c	orrect statem	ent		[Ans. Aeration]
1		- Il laise, give				•	

- **1.** Washing soda is used to remove permanent hardness of water.
- Ans. True.

WATER



# **Must Know Definitions**

Acid	:	The chemical compound which has sour taste is called <b>acid</b> .
Organic acid	:	Acid which occur naturally in fruits and vegetables is called <b>organic acid</b> .
Alkalies	:	Water soluble bases are called alkalies.
Bases	:	Bases are chemical substances that are corrosive and bitter in taste.
Neutralization	:	Neutralization is a chemical reaction in which an acid and a base react with each other to form water and salt.
Indicator	:	An indicator or acid - base indicator is a chemical substance which indicates the acidic or basic nature of a solution by suitable colour change.

Term - III

# → ACTIVITY - 6

Find out the nature of the solution.

Sample solution	Change of colour in	Acid / Base		
Sample solution	Red litmus	Blue litmus	Aciu / Dase	
Lemon juice	-	1	Acid	
Vinegar	-	1	Acid	
Calcium hydroxide solution	$\checkmark$	-	Base	
Bathing Soap solution	$\checkmark$	-	Base	
Orange juice	-	1	Acid	

 $\star \star \star \star \star$ 

Additional Questions

#### I. Choose the correct answer : 1. Acids present in fruits and vegetables are called acids. (a) organic (b) strong (c) mineral (d) fruit [Ans. (a) organic] 2. Vinegar is in taste. (b) sour (a) bitter (c) sweet (d) sweetless [Ans. (b) sour] 3. Citric acid is present in \_\_\_\_\_ (d) spinach (a) curd (b) milk (c) lemon [Ans. (c) lemon] 4. Which of the following is not a natural indicator? (a) Litmus (b) Turmeric (c) Methyl orange Hibiscus (d) [Ans. (c) Methyl orange] **5**. An acid is \_\_\_\_\_. (a) bitter is taste (b) soapy to touch (c) corrosive in nature (d) all the above [Ans. (c) corrosive in nature] **6**. The common salt is (a) sodium carbonate (b) sodium bicarbonate (c) sodium nitrate (d) sodium chloride [Ans. (d) sodium chloride] 7. Add few drops of hibiscus indicator in soap solution. What do you observe? (a) It turns green (b) It turns magenta (c) It turns yellow (d) It turns red [Ans. (a) It turns green] Acids and bases can be identified in the laboratory by \_\_\_\_ 8. (a) an indicator (b) tasting (c) touching (d) smelling [Ans. (a) an indicator] 9. Lemon juice will turn (a) phenolphthalein pink (b) red litmus blue (c) turmeric indicator red (d) methyl orange red [Ans. (d) methyl orange red]

Ans.

	Acid	Base	Salt
i.	HCl	NaOH	NaCl
ii.	HNO <sub>3</sub>	NaOH	NaNO <sub>3</sub>
iii.	CH <sub>3</sub> COOH	NaOH	CH <sub>3</sub> COONa
iv.	$H_2SO_4$	NaOH	$Na_2(SO_4)_2$

#### **10.** Complete the table :-

	Indicator	Acidic solution	<b>Basic solution</b>
i.	Blue litmus	Red	-
ii.	-	No change in colour	Blue
iii.	-	-	Red
iv.	Methyl orange	-	-

#### Ans.

1.

	Indicator	Acidic solution	<b>Basic solution</b>
i.	Blue litmus	Red	No change in colour
ii.	Red litmus	No change in colour	Blue
iii.	Phenolphthalein	Colourless	Red
iv.	Methyl orange	Red	Yellow

#### VIII. Long answer questions :

#### Write a note on : a) Ant bite b) Wasp bite.

#### Ans. a) Ant bite :

- (i) Whenever bees or red ants bite they inject an acid called formic acid.
- (ii) These acids cause burning sensation and pain.
- (iii) To suppress the pain, a suitable base in the form of calcium hydroxide (readily available at home) is applied to neutralise the formic acid.

#### b) Wasp bite :

- (i) When we are bitten by wasp, we feel the burning sensation and pain.
- (ii) It is due to an alkaline substance injected by the insect.
- (iii) To neutralize the alkalinity we use vinegar which is an acid to neutralise.

#### 2. Write a note on : a) Litmus. b) Phenolphthalein. c) Methyl orange

#### Ans. a) Litmus :

- (i) Litmus is the most common indicators used in the laboratories.
- (ii) Litmus is a natural indicator which is extracted from lichens.
- (iii) It is available in the form of solution or in the form of strips prepared by absorbing litmus solution on filter paper.
- (iv) It is either red or blue in colour.
- (v) Blue litmus paper turns red in acidic solution and red litmus paper turns blue in the basic solution.

#### b) Phenolphthalein :

- (i) Phenolphthalein is a colourless compound.
- (ii) Its alcoholic solution is used as an indicator.
- (iii) It is colourless in acidic solution but turns pink in basic solution.

## c) Methyl orange :

- (i) Solid methyl orange dissolved in hot water and its filtrate is used as an indicator.
- (ii) It turns red in acidic solution and yellow in basic solution.

Unit 5

Chemistry

# **2.** Mention the advantages of natural gas.

- **Ans.** (i) It produces lot of heat as it is easily burnt.
  - (ii) It does not leave any residue.
  - (iii) It burns without smoke and so causes no pollution.
  - (iv) This can be easily supplied through pipes.
  - (v) It can be directly used as fuel in homes and industries.

# **3**. Expand CNG. List out its uses.

**Ans.** CNG - Compressed Natural Gas.

- (i) It is the cheapest and cleanest fuel.
- (ii) Vehicles using this gas produce less carbon dioxide and hydrocarbon emission.
- (iii) It is less expensive than petrol and diesel.

# 4. Identify the gas known as syngas. Why is it called so?

**Ans.** Water Gas is also called as syngas or synthesis gas as it is used to synthesize methanol and simple hydrocarbons. It is used as an industrial fuel also.

# **5.** Anthracite is known as the highest grade coal. Give reason.

- **Ans. (i)** Anthracite is the highest grade coal.
  - (ii) It has a very light weight and the highest heat content.
  - (iii) Anthracite coal is very hard, deep black and shiny.
  - (iv) It contains 86-97% carbon and has a heating value slightly higher than bituminous coal.
  - (v) It burns longer with more heat and less dust.

# **6**. Distinguish between octane number and cetane number.

# Ans.

Octane Number	Cetane Number			
Octane rating is used for petrol	Cetane rating is used for diesel			
It measures the amount of octane present in petrol.	It measures the ignition delay of the fuel in diesel engine.			
Octane number of petrol can be increased by adding benzene or toluene.	Cetane number of diesel can be increased by adding acetone.			
The fuel with high octane number has low cetane number	The fuel with high cetane number has low octane number			

# 7. Name the places in Tamilnadu harnessing wind energy from wind mills.

**Ans.** Wind mills are mostly located at Kayathar, Aralvaimozhi, Palladam and Kudimangalam in Tamil Nadu.

# 8. Solar energy is a non - depleting energy. Justify.

- **Ans. (i)** Solar energy is the only viable fuel source of non depleting nature for, Sun provides a free and renewable source of energy.
  - (ii) It is the renewable type of energy without endangering the environment.
  - (iii) It is the potential source to replace the fossil fuel in order to meet the needs of the world. With the advancements in science and technology, solar energy has become more affordable, and it can overcome energy crisis.

# 7. What are the characteristics of fuel?

- **Ans. (i)** It should be readily available.
  - (ii) It should be easily transportable
  - (iii) It should be less expensive
  - (iv) It should have high calorific value
  - (v) It should produce large amount of heat
  - (vi) It should not leave behind any undesirable substances.

#### 8. Write a note on bio - diesel.

**Ans.** Bio diesel is a fuel obtained from vegetable oils such as soya bean oil, jatropha oil, corn oil, sunflower oil, cotton seed oil, rice-bran oil and rubber seed oil.

# 9. What are the application of solar energy?

- Ans. (i) It is used in solar water heater.
  - (ii) It is used in drying of agricultural and animal products.
  - (iii) It is used in electric power generation.
  - (iv) It is used in solar green houses.
  - (v) It is used in solar pumping and solar distillation. It is used for solar cooking and solar furnaces also.

#### **10**. Write a note on wind energy.

**Ans.** Wind energy is obtained with the help of wind mills. When wind blows, they rotate the blades of the wind mills and current is produced in the dynamo. Wind mills are mostly located at Kayathar, Aralvaimozhi, Palladam and Kudimangalam in Tamil Nadu.

# VI. Long answer type questions :

# **1.** What are the uses of coal?

- Ans. (i) Coal is used to generate heat and electricity.
  - (ii) It is used to make derivatives of silicon which are used to make lubricants, water repellents, resins, cosmetics, hair shampoos and toothpaste.
  - (iii) Activated charcoal is used to make facepacks and cosmetics.
  - (iv) It is used to make paper.
  - (v) It helps to create alumina refineries.
  - (vi) Carbon fibre is an extremely strong but lightweight material is used in construction, mountain bikes, and tennis rackets.
  - (vii) Activated carbon used in filters for water and air purification and in kidney dialysis machines is obtained from coal.

# **2.** Explain destructive distillation of Coal.

- **Ans. (a)** The destructive distillation of coal can be carried out in the laboratories.
  - (b) Finely powdered coal is taken in a test tube and heated.
  - (i) At a particular temperature, coal breaks down to produce coke, coal tar, ammonia and coal gas.

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#### - Sura's $\circ$ Science $\circ$ 8th Std $\circ$ Term $\cdot$

III

Th	reshing	:	The process of separating the grains from their chaffs or pods is <b>threshing</b> .								
Wi	nnowing	<b>nowing</b> : Winnowing is the process of separating the grains.									
Fui	nigation	:	<b>Fumigation</b> is the process of spraying chemical vapors to minimize pest and insets in godowns.								
Cro	op rotation	:	<b>Crop rotation</b> is planting a series of different crops in the same field following a defined order.								
<b>Bioindicator</b> A bioindicator or biological indicator is any species or g species whose function or status reveals the qualitative statu environment.											
Fol	iar feeding	:	Foliar feeding is a technique of feeding plants by applying liquid fertilizer directly to their leaves.								
I. Choose the best answer :											
	Choose the	bes	t answer :								
I. 1.	Choose the	bes	$\rightarrow$								
	<b>Choose the</b> <b>The process of</b> (a) ploughing	<mark>bes</mark> i placi	t answer : ing seeds in the soil is called as (b) sowing								
	<b>Choose the</b> The process of	<mark>bes</mark> i placi	t answer : ing seeds in the soil is called as (b) sowing								
	Choose the The process of (a) ploughing (c) crop produc	<b>bes</b> t placi	t answer : ing seeds in the soil is called as (b) sowing								
1.	Choose the The process of (a) ploughing (c) crop produc	bes placi ction cont	t answer : ing seeds in the soil is called as (b) sowing (d) crop rotation [Ans. (b) sowing]								
1.	Choose the The process of (a) ploughing (c) crop product Organism that	bes placi ction cont	t answer : ing seeds in the soil is called as (b) sowing (d) crop rotation [Ans. (b) sowing] rol insects and pests of plant crops is								
1.	Choose the Choose the Choose the Choose the Choose the Choose the Choose of Process of Proceeding (a) ploughing (c) crop product <b>Organism that</b> (a) bio-pesticid (c) earthworms	bes placi ction cont	t answer : ing seeds in the soil is called as (b) sowing (d) crop rotation [Ans. (b) sowing] rol insects and pests of plant crops is (b) bio-fertilizers								
1. 2.	Choose the Choose the Choose the Choose the Choose the Choose the Choose of Process of Proceeding (a) ploughing (c) crop product <b>Organism that</b> (a) bio-pesticid (c) earthworms	bes placi ction cont	t answer : ing seeds in the soil is called as (b) sowing (d) crop rotation [Ans. (b) sowing] rol insects and pests of plant crops is (b) bio-fertilizers (d) neem leaves [Ans. (a) bio-pesticides]								
1. 2.	Choose the Constraints of process of process of product (a) ploughing (c) crop product Organism that (a) bio-pesticid (c) earthworms The method in the process of the proce	bes placi ction cont les	t answer : ing seeds in the soil is called as (b) sowing (d) crop rotation [Ans. (b) sowing] rol insects and pests of plant crops is (b) bio-fertilizers (d) neem leaves [Ans. (a) bio-pesticides] h water flows over the soil surface and allow it to infiltrate is (b) surface irrigation								
1. 2.	Choose the Choose of Product of Choose o	bes placi ction cont les whic	t answer : ing seeds in the soil is called as (b) sowing (d) crop rotation [Ans. (b) sowing] rol insects and pests of plant crops is (b) bio-fertilizers (d) neem leaves [Ans. (a) bio-pesticides] h water flows over the soil surface and allow it to infiltrate is (b) surface irrigation								

# (c) soil treatment (d) bio-predators [Ans. (a) seed treatment]

# 5. Which of the following is not present in Panchakavya?

# (a) cow dung (b) cow's urine (c) curd (d) sugar [Ans. (d) sugar]

# II. Fill in the blanks :

1.	The process of actively g	rowing seedling	from one place	e and planting in	the main field fo	r
	further growth is called _	·		Ans.	<b>Fransplantation</b>	]

# 2. \_\_\_\_\_ is a plant growing where it is not wanted. [Ans. Weed]

- **3.** The chemicals used for killing the weeds or inhibiting their growth are called as \_\_\_\_\_\_. [Ans. herbicides]
- **4.** \_\_\_\_\_\_ seed transfer its unique characteristics to the descents.

[Ans. Heirloom seeds]

# Biology

Unit 7

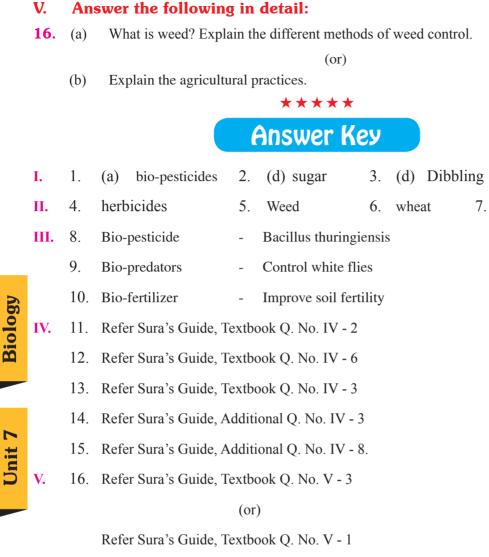
III

4.	Nee	em is a good		·				
	(a)	Bio-fertilizer	(b)	green manure	e (c)	insect repellant		Bio predator ns. (c) insect repellant]
<b>5</b> .	Roy	al Botanical g	gard	en is located i	n			
	(a)	Chennai	(b)	Mumbai	(c)	New Delhi	(d)	Kolkatta [Ans. (d) Kolkatta]
6.		is a n	neth	od of sowing s	seeds			
	(a)	Tillage	(b)	Winnowing	(c)	Weeding	(d)	U
								[Ans. (d) Dibbling]
II.	Fil	l in the bla	nks	:				
1.	Cro	ps sown in rair	ny se	ason are called	1	<u> </u> .		[Ans. Kharif]
2.	The	summer crops	are	also called		crops.		[Ans. zaid]
<b>3</b> .		is an exa	mple	of Rabi crop.				[Ans. Wheat]
4.	Indi	a is the largest	proc	lucer of	_ in t	he world.	A	ns. Banana/ Mangoes]
5.		is a fodder	crop	).				[Ans. Sorghum]
6.	Plac	cing a seed in a	ı pit o	or furrow is ca	lled _			[Ans. Dibbling]
7.	The	process of sep	arati	ng the grains f	from t	heir chaffs is calle	ed	
								[Ans. Threshing]
8.	Hei	rloom seeds ar	e also	o called		seeds.		[Ans. organic]
9.		is com	mon	ly called Pusa	instit	ute.		[Ans. IARI]
10.	The	first KVK was	s esta	blished in 197	'4 in			[Ans. Pondicherry]
11.	Veri	miwash is used	l as a	fc	or croj	os.		[Ans. foliar spray]
12.		can be	usec	l for seed treat	ment.			[Ans. Pachgavya]
13.		is the r	nain	source of bio-	fertili	zer.		[Ans. Cyanobacteria]
III.	Ma	tch the foll	lowi	ng :				
1.	1.	Paddy		(a) ]	Fodde	r		
	2.	Muskmelon		(b) (	Oil cr	op		
	3.	Millet		(c) Z	Zaid c	erop		
	4.	Sesame		(d) 1	Food	crop		
						[4	Ans. (	(1 - d, 2 - c, 3 - a, 4 - b)]

2.	1.	Nostoc	(a)	Pest
	2.	Bacillus	(b)	Cyanobacteria
	3.	Cotton bollworm	(c)	Legume
	4.	Rhizobium	(d)	Bio-pesticide

[Ans. (1 - b, 2 - d, 3 - a, 4 - c)]

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 $\star \star \star \star \star$ 

Pachgavya

 $(\mathbf{5} \times \mathbf{1} = \mathbf{5})$ 

Unit 7

#### b) Urbanization :

- (i) Increase in population needs the expansion of cities.
- (ii) More land is needed to establish housing and settlement.
- (iii) Requirements like construction of roads, development of houses, mineral exploitation and expansion of industries also arise due to urbanisation.
- (iv) Forests are destroyed to meet all these needs.

# c) Mining :

- (i) Mining of coal, diamond and gold require a large amount of forest land.
- (ii) Large number of trees are cut down to clear the forest area. The waste that comes out from mining pollutes the environment and affects the nearby plants.

## d) Construction of dams :

To provide water supply to the increasing population, large size dams are constructed. Hence, a great extend of forest area is being cleared.

#### e) Timber Production :

- (i) Wood-based industries like paper, match-sticks, furniture need a substantial amount of wood supply.
- (ii) Wood is the most commonly used fuel, thus, a large number of trees are being cut down for fuel supplies.
- (iii) Illegal wood cutting is the main reason for the destruction of some valuable plants.

# f) Forest fire :

- (i) Forest fire be caused by humans, accidents or natural factors.
- (ii) Forest fires wipe out thousands of acres of forest land each year all over the world. This has tremendous effects on biodiversity and the economy as well.

#### g) Cyclones :

Cyclones destroy the trees on a massive scale.

# **Effects of Deforestation :**

# a) Extinction of species :

Deforestation has resulted in the loss of many wonderful species of plants and animals and many are on the verge of extinction.

# b) Soil Erosion :

- (i) When the trees are cut down, soils are exposed to the Sun's heat.
- (ii) Extreme temperature of the summer dries up the moisture and makes the nutrients to evaporate. It also affects the bacteria that helps in the breakdown of organic matter.

# c) Water cycle :

When trees are cut down, the amount of water vapour released decreases for transpiration and hence there is a decrease in the rainfall.

#### d) Floods :

When the trees are cut down, the flow of water is disrupted and it leads to flooding.

- Sura's  $\circ$  Science  $\circ$  8th Std  $\circ$  Term  $\cdot$ 

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# Additional Questions

(	Ch	oose	the co	orre	ct answer :				
			is not	a gr	een house gas				
		Oxyge	en	0	8	(b)	Carbon dioxide		
(	c)	Nitrou	ıs oxide			(d)	Methane		[Ans. (a) Oxygen]
			ovemer		s started in _				
		1980			1970		1960		1953 [Ans. (b) 1970]
		-					World Biodivers	•	•
(	(a)	April	20	(b)	May 22	(c)	December 8	(d)	October 12 [Ans. (b) May 22]
_			is no	ot an	endangered a	nima	1.		
(	a)	Nilgir	i Tahr	(b)	Asiatic Lion	(c)	Snow leopard	(d)	Dodo duck [Ans. (d) Dodo duck]
	Yeo	man B	utterfly	/ has	been declared	d as s	tate butterfly of		•
(	(a)	Manip	our	(b)	Nagaland	(c)	Tamil Nadu	(d)	West Bengal [Ans. (c) Tamil Nadu]
_			is no	ot a b	iosphere rese	rve.			
(	(a)	Nanda	ı devi	(b)	Manas	(c)	Magamali	(d)	Sunderbans [Ans. (c) Magamali]
_			is th	e lar	gest animal ri	ghts o	organization in (	the wo	orld.
(	(a)	Blue c	cross	(b)	IUCN	(c)	WWF	(d)	PETA [Ans. (d) PETA]
l	Fil	l in th	ne bla	nks	:				
r.	Гhe	founde	er of Ch	ipko	movement wa	.s		Ans	. Sunderlal Bahuguna]
I	n a	Cryo b	ank, the	e see	ds are preserve	ed in _	·		[Ans. liquid nitrogen]
-	Гhe	variety	of life	form	s is called				[Ans. Biodiversity]
I	Rep	lanting	of trees	s is ca	alled				[Ans. Reforestation]
- -	Гhe	details	of enda	anger	ed species can	be vi	iewed in	_•	[Ans. Red Data Book]
ł	Blu	e cross	of India	a was	established in	l	in India.		[Ans. Chennai]
_		ha	as led to	o dest	ruction of cor	al see	ds.	[	Ans. Biomagnification]
_		B	iospher	e res	erve is located	in Ta	mil Nadu .		[Ans. Nilgiri]
1	Nat	ional pa	ark is ar	ı exa	mple for	COI	nservation.		[Ans. In-situ]
١	Woi	rld Wild	d life Da	ay is	celebrated on		·		[Ans. March 3 <sup>rd</sup> ]
1	17-	1							

# III. Very short answer :

Biology

**Unit 8** 

# **1.** What is Reforestation?

**Ans.** Reforestation is the natural or intentional replanting of the existing forests that have been destroyed through deforestation.

# VISUAL COMMUNICATION

# ≤) TEXT BOOK EXERCISES

Unit

I.	Ch	oose the	best	answer	:					
1.	The	Keyboard	short	tcut is use	ed to	copy the	select	ed text		
	(a)	Ctrl + C	(b)	Ctrl + V	(c)	Ctrl + X	(d)	Ctrl + A	[Ans. (a) Ctrl + C]	
<b>2</b> .	The	Keyboard	short	tcut is use	ed to	cut the se	elected	d text		
	(a)	Ctrl + C	(b)	Ctrl + V	(c)	Ctrl + X	(d)	Ctrl + A	[Ans. (c) Ctrl+x]	
3.	If th	ne ruler is n	ot dis	splayed ir	ı the	screen,		option is	s clicked.	
	(a)	View-> ru	ller		(b)	view-> ta	ısk			
	(c)	File-> sav	e		(d)	Edit-> pa	ste	[Ans. (a) View-> r		
4.	Hov	v many typ	es of	page orie	ntati	ion are the	ere in	Libre offic	e Writer?	
	(a)	1	(b)	2	(c)	3	(d)	4	[Ans. (b) 2]	
<b>5</b> .	The	menu used	l to sa	we the do	ocum	ent is				
	(a)	File-> open		le-> open (b) file-> j	file-> prin	int				
	(c)	file-> save	e		(d)	Edit-> clo	ose		[Ans. (c) file-> save]	

# II. Answer briefly :

# **1.** What is the use for Text document software?

- **Ans. (i)** A text file is used to store standard and structured textual data or information that is human readable.
  - (ii) It is defined in several different formate including the most popular ASCII for cross platform usage and ANSI for windows based operating platforms.

# **2.** What is selecting text?

**Ans.** Selecting is the process of highlighting text or picking an object. For example, a user may select text to copy, cut or move that text to an alternate location or select a file they want to view.

# **3.** How to close a document?

Ans. Close the current document by selecting File  $\rightarrow$  Close command on the menu bar or click the Close icon if it is visible on the Standard toolbar.

# 4. How can you change the margins?

**Ans.** If the user is not having the exact value for the margins then the Ruler option on the View menu can be used to change the margins.

Following steps are used in this method:

- (i) If the ruler is not displayed in the screen,  $View \rightarrow Ruler$  option is clicked.
- (ii) The gray area of the ruler indicates the margin's top area.
- (iii) The mouse pointer is then moved in between the gray and white area of the ruler.
- (iv) When the pointer is in the right spot, it changes into a line with arrows on both sides.
- (v) The margin guide is dragged to a new location.

# \*\*\*\*

# UNIT TEST 🗷

Time	e : 60	min.						Marks : 20	NO				
I.	Choose the correct answer: $(4 \times 1 = 4)$												
1.	The	menu is used to		VISUAL COMMUNICATION									
	(a)	File-> open	(b)	file-> print	(c)	file-> save	(d)	file-> close	MU				
<b>2</b> .	The	Keyboard shor	tcut is	s used to copy t	he sel	lected text			MO				
	(a)	Ctrl + C	(b)	Ctrl + V	(c)	Ctrl + X	(d)	Ctrl + A	Ŭ				
<b>3</b> .	How	w many types of	f page	orientation are	there	e in Libre offic	e Wri	iter?	<b>JAI</b>				
	(a)	1	(b)	2	(c)	3	(d)	4	<b>ISI</b>				
<b>4</b> .		is the Libr	eOffic	ce formula or ec	quatio	n editor.							
	(a)	Impress	(b)	Drawing	(c)	Base	(d)	Math					
II.	Ans	swer the foll	owin	ıg:				$(6 \times 2 = 12)$					
<b>5</b> .	Wha	at is right aligni	ment?										
6.	Wha	at is the use for	Text	document softw	vare?								
7.	Wha	at is the differen	nce be	etween cut and	copy?								
8.	How	v to close a doc	umen	t?									
9.	Wha	at is selecting te	ext?										
10.	Wha	at is paragraph	alignr	nent?									
III.	Ans	swer the foll	owin	ıg:				$(1 \times 4 = 4)$					
		the steps of mo		-				- · · ·					
			0										

#### Sura's Public Exam Model Question paper $\odot$ Science $\odot$ 8th Std

- 16. (i) Expansion
  - (ii) Increase in temperature
  - (iii) Change in state
- 17. Metals can be drawn into thin wires. This property of metals is called ductility. Example : Copper wires.
- 18. a) Manometer, Barometer.
  - b) Lowers pressure, High pressure.
- 19. a) Fermentation
  - b) pole
- 20. During lightning and thunder, we should avoid standing in ground and open spaces. You should make yourself as small as possible by squating. It is however safe to stay inside a car because the car acts as a shield and protects us from the electric field generated by the storm.
- 21. 1 d, 2 a, 3 b, 4 c
- 22. Refer Sura's Guide, Unit 3, Textbook Q. No. V 3
- 23. Refer Sura's Guide, Unit 2, Textbook Q. No. VII 1
- 24. If both assertion and reason are true and the reason is the correct explanation of assertion.
- 25. Refer Sura's Guide, Unit 4, Textbook Q. No. VII 2
- 26. Refer Sura's Guide, Unit 5, Textbook Q. No. IV 4
- 27. Refer Sura's Guide, Unit 2, Textbook Q. No. V 2
- 28. Refer Sura's Guide, Unit 1, Textbook Q. No. VII 2
- 29. Refer Sura's Guide, Unit 8, Textbook Q. No. V 3
- 30. Refer Sura's Guide, Unit 7, Textbook Q. No. IV 5
- III. 31. a) Refer Sura's Guide, Unit 1, Textbook Q. No. VI 1

#### (or)

- b) Refer Sura's Guide, Unit 3, Textbook Q. No. VI 2
- 32. a) Refer Sura's Guide, Unit 2, Textbook Q. No. VI 1

(or)

- b) Refer Sura's Guide, Unit 4, Textbook Q. No. VIII 3
- 33. a) Refer Sura's Guide, Unit 7, Textbook Q. No. V 1

#### (or)

- b) Refer Sura's Guide, Unit 8, Textbook Q. No. V 1
- 34. a) Refer Sura's Guide, Unit 5, Textbook Q. No. V 3

(or)

b) Refer Sura's Guide, Unit - 6, Textbook Q. No. V - 2

#### $\star \star \star \star \star$